

CLAIM AMENDMENTS

Claims 1-26 (canceled)

27. (currently amended) A process for preparing flexible polyurethane foam comprising the steps of:

A) providing a mixing apparatus capable of metering and mixing at least three separate reactive chemical component streams;

B) providing a first reactive chemical component stream consisting essentially of a TDI series isocyanate composition;

C) providing a second reactive chemical component stream consisting essentially of an MDI series isocyanate composition, wherein the MDI series isocyanate composition constitutes from 60 to 99% by weight of all isocyanates used in the process of preparing the flexible polyurethane foam;

D) providing a third reactive chemical component stream comprising at least one polyol;

E) providing a blowing agent consisting essentially of water, wherein the water in foam formulation ranges from 0.5 to 8.0 parts by weight, per 100 parts by weight of all polyols in the foam formulation (pphp); and

F) metering and mixing together the first, second and third reactive chemical component streams and the blowing agent simultaneously by using the mixing apparatus under conditions suitable for the generation of flexible polyurethane foam;

[The process according to Claim 26,] wherein the Isocyanate Asymmetry Factor (IAF) of the foam formulation, calculated according to **Formula-I**, conforms to the following:

a) IAF ranges from 10 to 20, when the water content of the formulation is in the range of 0.5 to 2.0 pphp;

b) IAF ranges from 20 to 30, when the water content of the formulation is in the range of 2.0 to 3.0 pphp;

c) IAF ranges from 30 to 40, when the water content of the formulation is in the range of 3.0 to 4.0 pphp; and

d) IAF ranges from 40 to 50, when the water content of the formulation is in the range of 4.0 to 8.0 pphp;

wherein

IAF = $100[(\text{pbw } 2,4'\text{-MDI in formulation})/125.2 + (\text{pbw TDI in formulation})/87]/[\text{total -NCO equivalents in formulation}]$; **Formula I.**

28. (original) The process according to Claim 27, wherein the ratio of the MDI series isocyanates to the TDI series isocyanates used in the preparation of the flexible foam can be changed without using any new chemical component streams and without changing the compositions of any of the existing chemical component streams.

29. (original) A foam prepared according to the process of Claim 28 which does not exhibit collapse or shrinkage during foaming, the foam having predominantly open cells upon reaching a tack-free state.

Claims 30-32 (canceled)